

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4	((SIGRID) near2 (BUHLER)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/08/30 14:45
S2	2	("5763599").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/30 14:45
S3	40	((WOLFGANG) near2 (PFLEIDERER)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/08/30 16:52
S4	2	((MARKUS) near2 (OTT)).INV.	US-PGPUB; USPAT	NEAR	ON	2006/08/30 16:44
S5	2	("6750335").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/30 17:58
S6	2	("6756492").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/30 18:32
S7	17	ERITJA Ramon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2006/08/30 18:32

10/764, 989

31/08/2006

=> d his

(FILE 'HOME' ENTERED AT 10:37:33 ON 31 AUG 2006)

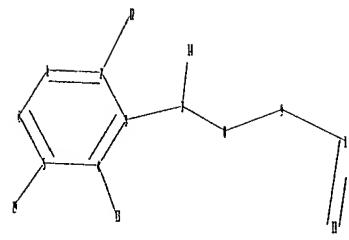
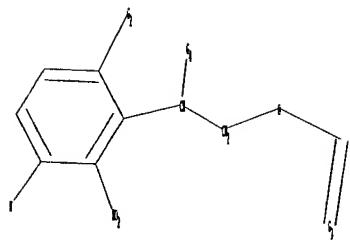
FILE 'REGISTRY' ENTERED AT 10:38:14 ON 31 AUG 2006

STRUCTURE UPLOADED

L1 21 S L1 SSS SAM
L2 415 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:38:49 ON 31 AUG 2006

L4 104 S L3
L5 86 S L4 AND 1800<=PY<=2003



```

chain nodes :
7 8 9 10 11 12 13 14 19
ring nodes :
1 2 3 4 5 6
chain bonds :
2-12 3-7 4-13 5-19 7-8 7-14 8-9 9-10 10-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
2-12 7-14 9-10 10-11
exact bonds :
3-7 4-13 5-19 7-8 8-9
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

```

G1:CH3,t-Bu

G2:H,NO2,Cl,Br,F,I

G3:O,S

G4:H,MeO,Ak

Match level :

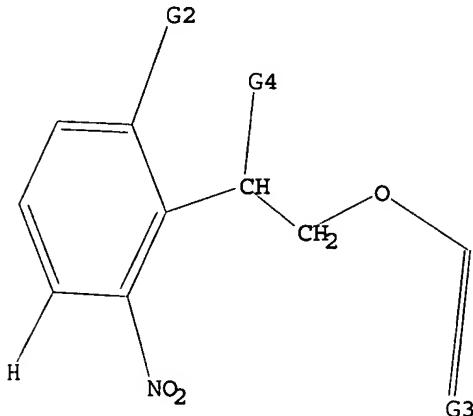
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS
 12:CLASS 13:CLASS 14:CLASS 19:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 Me,t-Bu

G2 H,NO2,Cl,Br,F,I

G3 O,S

G4 H,MeO,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s 11 sss sam

SAMPLE SEARCH INITIATED 10:38:37 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 106 TO ITERATE

100.0% PROCESSED 106 ITERATIONS

21 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 1503 TO 2737
 PROJECTED ANSWERS: 146 TO 694

L2 21 SEA SSS SAM L1

=> s 11 sss full

FULL SEARCH INITIATED 10:38:44 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 2320 TO ITERATE

100.0% PROCESSED 2320 ITERATIONS

415 ANSWERS

SEARCH TIME: 00.00.01

L3 415 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.94	167.15

FILE 'CAPLUS' ENTERED AT 10:38:49 ON 31 AUG 2006
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FILE COVERS 1907 - 31 Aug 2006 VOL 145 ISS 10
 FILE LAST UPDATED: 30 Aug 2006 (20060830/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

```
=> s 13
L4      104 L3

=> d scan

L4      104 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN
IC      ICM C07H019-02
       ICS C07H001-00; C07H021-00
CC      33-9 (Carbohydrates)
       Section cross-reference(s): 23, 25
TI      Preparation and use of photo-labile 5'-O-protecting groups for nucleosides
       for synthesis reactions
ST      nitrophenyl alkoxy carbonyl deriv protecting group photolabile nucleotide
       prep; halogenation alkoxy carbonylation prep nitrophenyl deriv
       photolabile nucleotide protecting group
IT      Alkoxy carbonylation
       Halogenation
       Photolysis
       Protective groups
       (preparation and use of 2-(2-nitrophenyl)alkoxy carbonyl derivs. as
       photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-
       nucleotides for photo-directed oligonucleotide synthesis)
IT      Benzenoids
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
       (Preparation); RACT (Reactant or reagent)
       (preparation and use of 2-(2-nitrophenyl)alkoxy carbonyl derivs. as
       photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-
       nucleotides for photo-directed oligonucleotide synthesis)
IT      Nucleotides, preparation
RL: SPN (Synthetic preparation); PREP (Preparation)
       (preparation and use of 2-(2-nitrophenyl)alkoxy carbonyl derivs. as
       photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-
       nucleotides for photo-directed oligonucleotide synthesis)
IT      335201-64-4P 335201-68-8P 335201-72-4P
       335201-76-8P 335201-78-0P 335201-79-1P
       335201-80-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
```

(preparation and use of 2-(2-nitrophenyl)alkoxycarbonyl derivs. as photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-nucleotides for photo-directed oligonucleotide synthesis)

IT 50-89-5, Thymidine, reactions 503-38-8 587-02-0, 3-Ethylaniline
589-16-2, 4-Ethylaniline 110522-74-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and use of 2-(2-nitrophenyl)alkoxycarbonyl derivs. as photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-nucleotides for photo-directed oligonucleotide synthesis)

IT 5805-89-0P 13985-58-5P 36680-46-3P 51279-01-7P, 3-Acetylaminol-1-ethylbenzene 51529-96-5P 148582-37-0P 335201-49-5P 335201-53-1P
335201-55-3P 335201-56-4P 335201-57-5P 335201-58-6P 335201-59-7P
335201-60-0P 335201-61-1P 335201-62-2P
335201-63-3P 392303-95-6P 392303-96-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and use of 2-(2-nitrophenyl)alkoxycarbonyl derivs. as photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-nucleotides for photo-directed oligonucleotide synthesis)

IT 335201-50-8P 335201-51-9P 335201-52-0P 335201-54-2P
335201-65-5P 335201-66-6P 335201-67-7P
335201-69-9P 335201-70-2P 335201-71-3P
335201-73-5P 335201-74-6P 335201-75-7P
335201-77-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of 2-(2-nitrophenyl)alkoxycarbonyl derivs. as photo-labile 5'-O-protecting groups for ribo- or 2'-deoxy-ribo-nucleotides for photo-directed oligonucleotide synthesis)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> S L4 AND 1800<=PY<=2003
23862469 1800<=PY<=2003
L5 86 L4 AND 1800<=PY<=2003

=> d 15 ibib hitstr

L5 ANSWER 1 OF 86 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:827089 CAPLUS
DOCUMENT NUMBER: 140:77372
TITLE: Synthesis of photolabile 2-(2-nitrophenyl)propyloxycarbonyl protected amino acids
AUTHOR(S): Bhushan, Kumar R.; DeLisi, Charles; Laursen, Richard A.

CORPORATE SOURCE: Department of Biomedical Engineering, Boston University, Boston, MA, 02215, USA

SOURCE: Tetrahedron Letters (2003), 44(47), 8585-8588

PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal

LANGUAGE: English

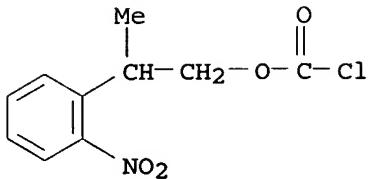
OTHER SOURCE(S): CASREACT 140:77372

IT 179691-31-7P 640291-03-8P 640291-10-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of photolabile (nitrophenyl)propyloxycarbonyl-protected amino acids)

RN 179691-31-7 CAPLUS

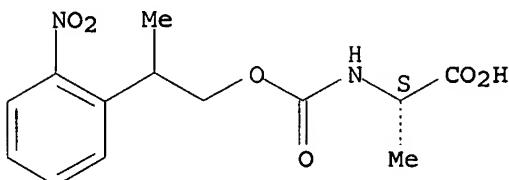
CN Carbonochloridic acid, 2-(2-nitrophenyl)propyl ester (9CI) (CA INDEX NAME)



RN 640291-03-8 CAPLUS

CN L-Alanine, N-[(2-(2-nitrophenyl)propoxy]carbonyl]- (9CI) (CA INDEX NAME)

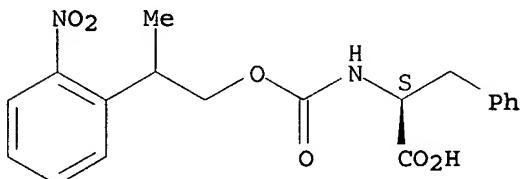
Absolute stereochemistry.



RN 640291-10-7 CAPLUS

CN L-Phenylalanine, N-[(2-(2-nitrophenyl)propoxy]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 640291-02-7P 640291-04-9P 640291-05-0P

640291-06-1P 640291-07-2P 640291-08-3P

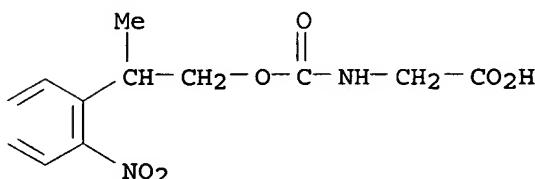
640291-09-4P 640291-11-8P 640291-12-9P

640291-13-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of photolabile (nitrophenyl)propyloxycarbonyl-protected amino acids)

RN 640291-02-7 CAPLUS

CN Glycine, N-[(2-(2-nitrophenyl)propoxy]carbonyl]- (9CI) (CA INDEX NAME)



RN 640291-04-9 CAPLUS

CN L-Valine, N-[(2-(2-nitrophenyl)propoxy]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

FILE 'HCAPLUS' ENTERED AT 17:01:25 ON 30 AUG 2006
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FILE COVERS 1907 - 30 Aug 2006 VOL 145 ISS 10
 FILE LAST UPDATED: 29 Aug 2006 (20060829/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> E BUHLER B/IN 25

E1	4	BUHLER ALLEN C/IN
E2	77	BUHLER ARTHUR/IN
E3	0 -->	BUHLER B/IN
E4	1	BUHLER B A/IN
E5	1	BUHLER BARBARA A/IN
E6	1	BUHLER BRUCE A/IN
E7	1	BUHLER DONALD R/IN
E8	1	BUHLER ERWIN/IN
E9	2	BUHLER EUGEN/IN
E10	4	BUHLER F A/IN
E11	1	BUHLER FONTAINE/IN
E12	1	BUHLER G/IN
E13	2	BUHLER GEBR/IN
E14	15	BUHLER GEBRUDER/IN
E15	14	BUHLER GEORG/IN
E16	1	BUHLER GERHARD DIPL ING/IN
E17	7	BUHLER H W/IN
E18	1	BUHLER HANNES/IN
E19	3	BUHLER HANS/IN
E20	2	BUHLER HANS EUGEN/IN
E21	2	BUHLER HOLGER/IN
E22	3	BUHLER J J VARN/IN
E23	1	BUHLER JAMES D/IN
E24	1	BUHLER JAMES E/IN
E25	5	BUHLER KARL/IN

=> E BUHLER S/IN 25

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E2	3	BUHLER RICH/IN
E3	0 -->	BUHLER S/IN
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E5	25	BUHLER STEVEN A/IN
E6	1	BUHLER THOMAS/IN
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E9	1	BUHLER VOLKER/IN
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E12	1	BUHLER WARREN G/IN
E13	7	BUHLERT MAGNUS/IN

E14 1 BÜHLES W C/IN
 E15 1 BUHLIG REIK/IN
 E16 1 BUHLING FRANK/IN
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 E19 1 BUHLMAN JANET/IN
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 E21 1 BUHLMANN ADOLPH W/IN
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 E23 1 BUHLMANN GEORG/IN
 E24 3 BUHLMANN KARL/IN
 E25 1 BUHLMANN KLAUS/IN

=> S (E4) AND (PHOTO? OR NUCLEO?)

1 "BUHLER SIGRID"/IN

1427343 PHOTO?

711841 NUCLEO?

L1 1 ("BUHLER SIGRID"/IN) AND (PHOTO? OR NUCLEO?)

=> DIS L1 1 TI

L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation and use of photo-labile 5'-O-protecting groups for nucleosides for synthesis reactions

=> DIS L1 1 IBIB

THE ESTIMATED COST FOR THIS REQUEST IS 1.14 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:319407 HCAPLUS

DOCUMENT NUMBER: 134:311401

TITLE: Preparation and use of photo-labile 5'-O-protecting groups for nucleosides for synthesis reactions

INVENTOR(S): Pfleiderer, Wolfgang; Buhler, Sigrid;
Giegrich, Heiner

PATENT ASSIGNEE(S): Nigu Chemie G.m.b.H., Germany

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19952113	A1	20010503	DE 1999-19952113	19991029
CA 2385262	AA	20010510	CA 2000-2385262	200001010
WO 2001032671	A1	20010510	WO 2000-EP9958	200001010
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1224198	A1	20020724	EP 2000-966152	200001010
EP 1224198	B1	20030423		
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JP 2003513101	T2	20030408	JP 2001-535372	200001010

AT 238334	E	20030515	AT 2000-966152	20001010
US 2002146737	A1	20021010	US 2002-108565	20020329
US 6750335	B2	20040615		

PRIORITY APPLN. INFO.: DE 1999-19952113 A 19991029
WO 2000-EP9958 W 20001010

OTHER SOURCE(S): CASREACT 134:311401; MARPAT 134:311401

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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E1	2	BUHLER RENE/IN
E2	3	BUHLER RICH/IN
E3	0 -->	BUHLER S/IN
E4	1	BUHLER SIGRID/IN
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E15	1	BUHLIG REIK/IN
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E22	1	OTT MIKLOS/IN
E23	4	OTT MONIKA/IN
E24	1	OTT NEE FULOP M/IN
E25	2	OTT NILS/IN

=> S (E7)

L2 2 ("OTT MARKUS"/IN)

=> DIS L2 1 TI

L2 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Novel photolabile protective groups for improved processes to prepare oligonucleotide arrays

=> DIS L2 2 TI

L2 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 TI Knitting machine

=> E PFLEIDERER/IN 25

E1	3	PFLEIDING WILHELM/IN
E2	1	PFLEIDERE ERNST/IN
E3	0 -->	PFLEIDERER/IN
E4	1	PFLEIDERER ALFRED/IN
E5	2	PFLEIDERER C/IN
E6	56	PFLEIDERER ERNST/IN
E7	1	PFLEIDERER G/IN
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E12	2	PFLEIDERER HANS JOERG/IN
E13	1	PFLEIDERER HANS JORG/IN
E14	1	PFLEIDERER KURT/IN
E15	4	PFLEIDERER MICHAEL/IN
E16	2	PFLEIDERER PETER/IN
E17	1	PFLEIDERER UWE/IN
E18	3	PFLEIDERER W/IN
E19	44	PFLEIDERER WOLFGANG/IN
E20	6	PFLEIDERER WOLFGANG EUGEN/IN
E21	1	PFLESSER GERHARD/IN
E22	1	PFLEUGER D RUSSELL/IN
E23	7	PFLEUMER F/IN
E24	4	PFLEUMER FRITZ/IN
E25	1	PFLEUMER H/IN

=> S (E19)

L3 44 ("PFLEIDERER WOLFGANG"/IN)

=> S (E19) AND (PHOTO? OR NUCLEO? OR OLIGO?)

44 "PFLEIDERER WOLFGANG"/IN

1427343 PHOTO?

711841 NUCLEO?

309355 OLIGO?

L4 .24 ("PFLEIDERER WOLFGANG"/IN) AND (PHOTO? OR NUCLEO? OR OLIGO?)

=> S (E19) AND 1800<=PY<=2003 AND (PHOTO? OR NUCLEO? OR OLIGO?)

44 "PFLEIDERER WOLFGANG"/IN

23862460 1800<=PY<=2003

1427343 PHOTO?

711841 NUCLEO?

309355 OLIGO?

L5 23 ("PFLEIDERER WOLFGANG"/IN) AND 1800<=PY<=2003 AND (PHOTO? OR NUCLEO? OR OLIGO?)

=> DIS L5 1- SAM

YOU HAVE REQUESTED DATA FROM 23 ANSWERS - CONTINUE? Y/(N):Y

THE ESTIMATED COST FOR THIS REQUEST IS 7.59 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:N

REQUEST CANCELED

=> DIS L5 1 HITSEQ

THE ESTIMATED COST FOR THIS REQUEST IS 7.05 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 1 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

=> DIS L5 1- IBIB

YOU HAVE REQUESTED DATA FROM 23 ANSWERS - CONTINUE? Y/(N):Y
THE ESTIMATED COST FOR THIS REQUEST IS 26.22 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 1 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:58099 HCAPLUS

DOCUMENT NUMBER: 138:90025

TITLE: Synthesis of oligodeoxyribonucleotides via condensation of nucleoside phosphoramidites

INVENTOR(S): Stengele, Klaus-Peter; Pfleiderer, Wolfgang

PATENT ASSIGNEE(S): Chemogenix G.m.b.H., Germany

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006476	A1	20030123	WO 2002-EP7657	20020709 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
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OTHER SOURCE(S):	MARPAT 138:90025			
REFERENCE COUNT:	8	THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L5 ANSWER 2 OF 23 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:319407 HCAPLUS

DOCUMENT NUMBER: 134:311401

TITLE: Preparation and use of photo-labile
5'-O-protecting groups for nucleosides for
synthesis reactions

INVENTOR(S): Pfleiderer, Wolfgang; Buhler, Sigrid;
Giegrich, Heiner

PATENT ASSIGNEE(S): Nigu Chemie G.m.b.H., Germany

SOURCE: Ger. Offen., 18 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent